

Mr Steve Leigh
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MK9 1EN

Your Ref : OP158365
R00025

Case Ref : PRM-IOP-0333

IN Number : As listed

Date: 12th March 2025

Contact: Adam Buckland

2 Rivergate,
Temple Quay,
Bristol.
BS1 6EH.

Dear Steve,

THE RAILWAYS (INTEROPERABILITY) REGULATIONS 2011, AS AMENDED UK TYPE AUTHORISATION OF GSM-R V4.0 FITTED TO THE VEHICLES LISTED IN THIS LETTER IN CONFORMITY WITH EUROPEAN REGISTER OF AUTHORISED TYPE REFERENCE 11-095-0001-5-001.

I refer to your application for authorisation against an approved type, received on 10th March 2025. Following a review of your application, I can confirm that ORR grants an authorisation under regulation 9 of the Railways (Interoperability) Regulations 2011, as amended.

This authorisation is for the placing in service of V4.0 GSM-R Cab Mobile sub system fitted with an interference resistant transceiver. In addition, there is an option to replace the current GSM-R antenna with a combined GSM-R/GPS antenna and to fit an additional LTE antenna.

- GSM-R Cab Mobile Type - GSM-R V4.0 Cab Mobile SVR400+ with NR4.0 software (Build 1127) which incorporate an ETSI TS 102 933 V 2.1.1 compliant transceiver.
- GSM-R/GPS antenna (Fitment of combined GSM-R/GPS antennae is optional)
 - Huber & Suhner – SWA-0825/360/5/30/DFRX30
 - Polomarconi – BGLD1/S

- LTE antenna (Fitment of LTE antennae is optional)
 - Huber & Suhner – SWA-0825/360/5/30/MIMO
 - Panorama Antennas – TRNM-7-60-NJ
 - Polomarconi – T01811814
 - Huber & Suhner – Sencity Rail MIMO Antenna 1399.17.0222

This conforms to European Register of Authorised Types (ERATV) type 11-095-0001-5-001.

It is noted that V4.0 GSM-R cab mobile build number, 1136, is included within this application. You have confirmed with your Approved Body that the two modifications in this build do not change either the GSM-R cab mobile software or related hardware on the train. This build is, therefore, considered by Network Rail and the manufacturer as a minor change with no part of the applicable National Technical Specification Notice (NTSN) or Technical Specification for Interoperability (TSI) being impacted. Therefore, it is considered that the initial determination of type remains unchanged.

I refer to your documents V4.0 GSM-R Cab Mobile Build 1136 Significance Decision, dated the 3rd September 2021 and the Letter of Assessment of Minor Change reference ACS9244 L02 dated the 30th July 2021.

This authorisation applies to the following inclusive.

Operator	Class	Vehicle	Cab	V4.0 Installation Date	Build Number	IN
Arriva Rail London	710	710270	A	21/02/2024	1136	UK/51/2021/0049
Arriva Rail London	710	710270	B	21/02/2024	1136	UK/51/2021/0049
Greater Anglia	720	720101	A	01/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720101	B	01/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720102	A	24/03/2024	1136	UK/51/2022/0006
Greater Anglia	720	720102	B	24/03/2024	1136	UK/51/2022/0006
Greater Anglia	720	720138	A	25/01/2024	1136	UK/51/2022/0006
Greater Anglia	720	720138	B	25/01/2024	1136	UK/51/2022/0006
Greater Anglia	720	720139	A	17/04/2024	1136	UK/51/2022/0006
Greater Anglia	720	720139	B	17/04/2024	1136	UK/51/2022/0006
Greater Anglia	720	720140	A	19/03/2024	1136	UK/51/2022/0006
Greater Anglia	720	720140	B	09/09/2024	1136	UK/51/2022/0006
Greater Anglia	720	720141	A	27/03/2024	1136	UK/51/2022/0006
Greater Anglia	720	720141	B	27/03/2024	1136	UK/51/2022/0006
Greater Anglia	720	720142	A	15/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720142	B	15/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720143	A	12/02/2024	1136	UK/51/2022/0006

Greater Anglia	720	720143	B	12/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720144	A	28/06/2024	1136	UK/51/2022/0006
Greater Anglia	720	720144	B	27/06/2024	1127	UK/51/2022/0006
Greater Anglia	720	720501	A	29/09/2023	1136	UK/51/2022/0006
Greater Anglia	720	720501	B	29/09/2023	1136	UK/51/2022/0006
Greater Anglia	720	720503	A	26/08/2024	1127	UK/51/2022/0006
Greater Anglia	720	720503	B	26/08/2024	1127	UK/51/2022/0006
Greater Anglia	720	720505	A	18/12/2024	1127	UK/51/2022/0006
Greater Anglia	720	720505	B	18/12/2024	1136	UK/51/2022/0006
Greater Anglia	720	720509	A	20/01/2024	1136	UK/51/2022/0006
Greater Anglia	720	720509	B	20/01/2024	1136	UK/51/2022/0006
Greater Anglia	720	720510	A	06/08/2024	1136	UK/51/2022/0006
Greater Anglia	720	720510	B	06/08/2024	1136	UK/51/2022/0006
Greater Anglia	720	720512	A	31/10/2023	1136	UK/51/2022/0006
Greater Anglia	720	720512	B	31/10/2023	1136	UK/51/2022/0006
Greater Anglia	720	720516	A	07/06/2024	1136	UK/51/2022/0006
Greater Anglia	720	720516	B	07/06/2024	1136	UK/51/2022/0006
Greater Anglia	720	720519	A	22/04/2024	1136	UK/51/2022/0006
Greater Anglia	720	720519	B	22/04/2024	1136	UK/51/2022/0006
Greater Anglia	720	720534	A	04/11/2024	1136	UK/51/2022/0006
Greater Anglia	720	720534	B	04/11/2024	1127	UK/51/2022/0006
Greater Anglia	720	720554	A	29/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720554	B	29/02/2024	1136	UK/51/2022/0006
Greater Anglia	720	720573	A	18/12/2024	1136	UK/51/2022/0006
Greater Anglia	720	720573	B	18/12/2024	1136	UK/51/2022/0006
Greater Anglia	720	720581	A	29/01/2025	1136	UK/51/2022/0006
Greater Anglia	720	720581	B	29/01/2025	1136	UK/51/2022/0006
Merseyrail	777	777019	A	02/09/2023	1136	UK/51/2022/0005
Merseyrail	777	777019	B	02/09/2023	1136	UK/51/2022/0005
Merseyrail	777	777020	A	17/10/2023	1136	UK/51/2022/0005
Merseyrail	777	777020	B	17/10/2023	1136	UK/51/2022/0005
Merseyrail	777	777021	A	08/04/2024	1127	UK/51/2022/0005
Merseyrail	777	777021	B	08/04/2024	1136	UK/51/2022/0005
Merseyrail	777	777023	A	02/09/2023	1136	UK/51/2022/0005
Merseyrail	777	777023	B	02/09/2023	1136	UK/51/2022/0005
Merseyrail	777	777024	A	16/10/2023	1136	UK/51/2022/0005
Merseyrail	777	777024	B	08/02/2024	1136	UK/51/2022/0005
Merseyrail	777	777025	A	06/12/2023	1136	UK/51/2022/0005
Merseyrail	777	777025	B	06/12/2023	1136	UK/51/2022/0005
Merseyrail	777	777026	A	05/11/2023	1136	UK/51/2022/0005
Merseyrail	777	777026	B	12/04/2024	1136	UK/51/2022/0005
Merseyrail	777	777027	A	31/08/2024	1136	UK/51/2022/0005
Merseyrail	777	777027	B	06/12/2023	1136	UK/51/2022/0005

Merseyrail	777	777028	A	04/12/2023	1136	UK/51/2022/0005
Merseyrail	777	777028	B	04/12/2023	1136	UK/51/2022/0005
Merseyrail	777	777029	A	03/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777029	B	03/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777030	A	19/11/2023	1127	UK/51/2022/0005
Merseyrail	777	777030	B	19/02/2024	1127	UK/51/2022/0005
Merseyrail	777	777031	A	31/08/2023	1136	UK/51/2022/0005
Merseyrail	777	777031	B	31/08/2023	1136	UK/51/2022/0005
Merseyrail	777	777032	A	11/01/2024	1136	UK/51/2022/0005
Merseyrail	777	777032	B	11/01/2024	1136	UK/51/2022/0005
Merseyrail	777	777033	A	25/11/2024	1136	UK/51/2022/0005
Merseyrail	777	777033	B	25/11/2024	1136	UK/51/2022/0005
Merseyrail	777	777034	A	10/01/2024	1136	UK/51/2022/0005
Merseyrail	777	777034	B	10/01/2024	1136	UK/51/2022/0005
Merseyrail	777	777035	A	13/09/2024	1136	UK/51/2022/0005
Merseyrail	777	777035	B	13/09/2024	1136	UK/51/2022/0005
Merseyrail	777	777037	A	04/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777037	B	04/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777038	A	19/04/2024	1136	UK/51/2022/0005
Merseyrail	777	777038	B	19/04/2024	1136	UK/51/2022/0005
Merseyrail	777	777041	A	08/03/2024	1136	UK/51/2022/0005
Merseyrail	777	777041	B	08/03/2024	1127	UK/51/2022/0005
Merseyrail	777	777043	A	18/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777043	B	02/12/2024	1136	UK/51/2022/0005
Merseyrail	777	777045	A	18/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777045	B	18/05/2024	1136	UK/51/2022/0005
Merseyrail	777	777047	A	27/07/2024	1136	UK/51/2022/0005
Merseyrail	777	777047	B	27/07/2024	1136	UK/51/2022/0005
Merseyrail	777	777051	A	18/04/2024	1136	UK/51/2022/0005
Merseyrail	777	777051	B	18/04/2024	1127	UK/51/2022/0005
Merseyrail	777	777053	A	06/09/2024	1136	UK/51/2022/0005
Merseyrail	777	777053	B	10/09/2024	1136	UK/51/2022/0005
Merseyrail	777	777152	A	02/10/2023	1136	UK/51/2022/0005
Merseyrail	777	777152	B	02/10/2023	1136	UK/51/2022/0005

The restrictions or limitations of use on the structural subsystem are those referenced in the Determination of Type.

The rolling stock subsystem authorised by this letter must be operated and maintained in accordance with Regulation 20.

You should be aware that any future modifications to the authorised subsystem may constitute a 'renewal' or an 'upgrade' as defined in Regulation 2. If a project entity, in relation to the project, considers that the modification meets either of these definitions they may apply, in accordance with the provisions of Regulation 13, to the Department for Transport (DfT) for a decision on whether a new authorisation will be required. Should DfT decide that an authorisation is not required they must consult with ORR whether authorisation is required on safety grounds.

As the project entity you are responsible for retaining the declaration of conformity to an authorised type of railway vehicle, documentation recording any alterations, and maintenance manuals in relation to the subsystem, keeping them up to date and making them available to the ORR in accordance with Regulation 19.

If you are not the owner of the authorised subsystem you shall within 60 days, in accordance with Regulation 19(3), transfer the declaration of conformity to an authorised type of railway vehicle, documentation recording any alterations, and maintenance manuals in relation to the subsystem to the owner of the subsystem and the owner shall then be regarded as the project entity. If the owner, in accordance with Regulation 19(4), disposes of his interest in the authorised subsystem, he shall within 60 days of the disposal transfer the declaration of conformity to an authorised type of railway vehicle, documentation recording any alterations, and maintenance manuals in relation to the subsystem to the person acquiring that interest and that person shall be regarded as the project entity.

Please note that under Regulation 36, the person who applied for the authorisation shall send particulars to the Registration Entity to enable the registration entity to enter the information on the National Vehicle Register. This will include such further information as the registration entity may reasonably require set out in the relevant standard.

If you are the operator, may I remind you of the need to have adequate arrangements within your Safety Management System to control the risks associated with this rolling stock subsystem.

This decision letter will be published on ORR's website.

Yours sincerely

Steve Fletcher

Cc

James Le Grice Head of Interoperability, Safety and Standards DfT.

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David Galloway Head of Vehicle Compatibility, Network Rail.

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